

C2C Earth Science with Confidence Rating

Background Information

1. Personal Information:

Name:

Teacher:

2. School:

☐ William S. Cohen Middle School

☐ UTC

☐ Reeds Brook Middle School

☐ Hermon High School

☐ Hermon Middle School

☐ Old Town High School

☐ James F. Doughty Middle School

☐ Bangor High School

☐ Leonard Middle School

☐ Hampden Academy

Other (please specify)

3. Create your "identification code":

Enter month and day of your birthday followed by first and last initials. For example Hannah Montana was born on November 23rd, so her identification code is 1123HM.

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4. Of the days below, which has more hours of daylight in Maine?

- ☐ a. June 21
- ☐ b. July 21
- ☐ c. August 21
- ☐ d. September 21
- ☐ e. All dates are the same.

5. How sure were you on your answer for the previous question?

	Very sure	Somewhat sure	A little bit sure	I'm guessing
Choose one:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



6. When it's summer in Maine, which season is it on the opposite side of the Earth in New Zealand?

- ☐ a. Summer
- ☐ b. Spring
- ☐ c. Winter
- ☐ d. Fall

7. How sure were you on your answer for the previous question?

	Very sure	Somewhat sure	A little bit sure	I'm guessing
Choose one:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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8. How long does it take for the Earth to turn once on its axis?

- ☐ a. One day.
- ☐ b. One week.
- ☐ c. One month.
- ☐ d. One year.
- ☐ e. It never happens.

9. How sure were you on your answer for the previous question?

	Very sure	Somewhat sure	A little bit sure	I'm guessing
Choose one:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10. Five friends were talking. They each had different ideas about why it is warmer in the summer than in the winter. Which friend do you most agree with?

- ☐ a. Werner: "It's because the winter clouds block heat from the Sun."
- ☐ b. Ava: "It's because the Sun gives off more heat in the summer than in winter."
- ☐ c. Raul: " It's because Earth's tilt changes the angle of sunlight hitting Earth."
- ☐ d. Fernando: "It's because the Earth orbits closer to the Sun in the summer than in the winter."
- ☐ e. Susan: "It's because the Northern Hemisphere is closer to the Sun in summer than in the winter."

11. How sure were you on your answer for the previous question?

	Very sure	Somewhat sure	A little bit sure	I'm guessing
Choose one:	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Earth Science

12. Earth would be covered with ice if we did not have:

- ☐ a. Sunlight.
- ☐ b. The tilt of Earth's axis.
- ☐ c. Volcanoes.
- ☐ d. Human technology.
- ☐ e. An ozone hole.

13. How sure were you on your answer for the previous question?

Very sure

Somewhat sure

A little bit sure

I'm guessing

Choose one:

☐☐☐☐

14. Imagine Earth had no air, rain, or clouds. What would the temperatures be like during the night?

- ☐ a. Temperatures at night would be the same.
- ☐ b. The night would get much hotter.
- ☐ c. The night would get much colder.
- ☐ d. The night would only warm up at the North and South Poles.
- ☐ e. There would not be any night.

15. How sure were you on your answer for the previous question?

Very sure

Somewhat sure

A little bit sure

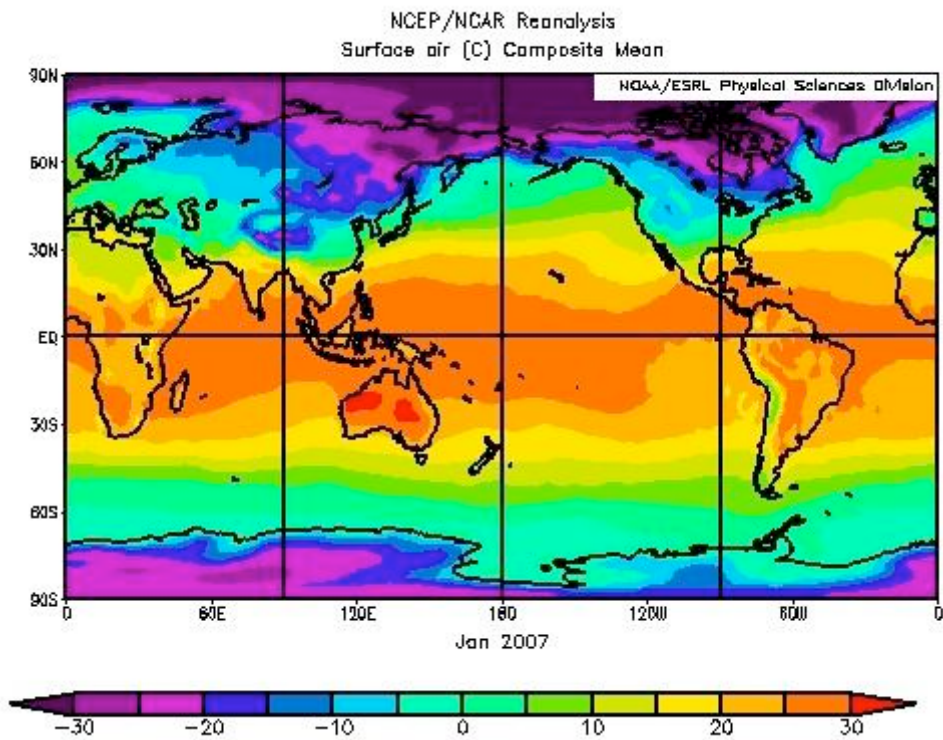
I'm guessing

Choose one:

☐☐☐☐

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Average monthly temperature (degrees Celsius), January, 2007



16. This figure shows:

- ☐ a. How the temperature changed over time during the month of January 2007
- ☐ b. The highest temperature recorded on Earth in January 2007
- ☐ c. How the average temperature varied at different locations on Earth in January in 2007
- ☐ d. Where temperature and precipitation were greatest in January 2007
- ☐ e. How temperature changed around the Earth throughout 2007

17. How sure were you on your answer for the previous question?

Very sure

Somewhat sure

A little bit sure

I'm guessing

Choose one:

☐

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You're finished!

Thank you!

Acknowledgements:

Many of the questions on this survey were developed by the MOSART (Misconceptions-Oriented Standards-based Assessment Resources for Teachers) Team led by Dr. Phil Sadler, Harvard-Smithsonian Center for Astrophysics. See http://www.cfa.harvard.edu/smgphp/mosart/about_mosart.html for more information.